

Mechanical Engineering Catalog 2025

Fall	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU	EF 142 or 151 or 157 (4) (EI) (NS) FA, SP	EF 105 (1) FA, SP	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU	English 101 or 131 (3) (WC) FA, SP, SU
16 hours	Math 132 Prereq- Math 131 Math 141 Prereq- ACT Math 28 or SAT Math 660 or Math 130 with C or better	EF 142 Prereq- EF 141 with C- or better and Math 131 EF 142 Coreq- Math 132; EF 151 Coreq-Math 132/141/147 or higher	Coreq- EF 152 or 158	Prereq-Math 119; recommended background in Math 131	101 Standard; 131 English as Second Language
Spring	Math 142 or 148 (4) (QR) FA, SP, SU	EF 152 or 158 (4) (NS and EI) FA, SP, SU	ME 202 (2) FA, SP, SU	Vol Core (3) FA, SP, SU	English 102 or 112 or 298 or 132 (3)(WC) FA,SP, SU
16 hours	Prereq- Math 132 or 141 or 147	Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148 and EF 105 or COSC 101 or 102	Coreq- EF 152 or 158 and Math 142 or 148	Global Citizenship United States (GCUS)	102 Prereq 101; 112 Prereq is AP 101 and Test Scores; 298 Prereq University Honors only; 132 Prereq 131 ESL

Fall	Math 241 or 247 (4) FA, SP, SU	ME 231 (3) FA, SP, SU	EF 230 or 237 (2) FA, SP	ME 210 (2) FA, SP	ECON 201 or 207 (4) FA, SP, SU
15 hours	Prereq- Math 142 or 148	Prereq- EF 152/158 and ME 202 with grades of C or better	Prereq- EF 105 or 142 or COSC 101/102/ 111; Coreq-EF 152/158 or PHYS 136/138	AE, BME, or ME major. Sophomore, Junior or Senior standing	Vol Core Social Science (SS)
Spring	Math 231 or 237 (3) FA, SP, SU	Math 251 or 257 (3) FA, SP, SU	Physics 231 (3) (NS) FA, SP, SU	ME 321 (3) FA, SP, SU	MSE 201 or 207 (3) FA, SP, SU
18 hours	Prereq- Math 142 or 148	Prereq- Math 142 or 148	Prereq- PHYS 135/137 or EF 152 Coreq- Math 142 or 148	Prereq- ME 202 with C or better and Math 142/148 with C or better	Prereq- Chem 122 and 123 or 128

Fall	ME 331 (3) FA, SP, SU	AE 341 or 347 (3) FA, SP, SU	ME 366 (3) FA, SP, SU	ECE 301 (3) FA, SP	ME 391 or 397 (3) FA, SP, SU
15 hours	Coreq- Math 241 or 247	Prereq- ME 231 with grade C or better and Math 241 or 247 with grade of C or better	Prereq- ME 321 with C or better	Prereq- Math 231 or 237 with C or better	Prereq- EF 230/237; Math 200/251/257, and Math 241/247, and Math 231/237 with grade C or better in all prereq courses
Spring	ME 466 (3) FA, SP	ME 363 or 367 (3) FA, SP, SU	Dept. Elective (3) FA, SP, SU	ME 344 (3) FA, SP, SU	ME 345 (3) (EI) FA, SP, SU
15 hours	Prereq- ME 321 and MSE 201 Coreq- ME 366	Prereq- ME 231 and Math 231/237 with grades of C or better	300 level or above AE/BME/ME not already required.	Prereq- ME 331 and 391/397 and AE 341/347	Prereq- ME 321 Coreq- AE 341/347 or BME 341/347, and ME 363/367 or BME 363/367, and ECE 301

Fall	ME 475 or 477 (3) FA, SP, SU	Technical Elective (3) FA, SP, SU	ME 365 (3) FA/SP/SU or 463 (3) SP	Vol Core (3) FA, SP, SU	ME 450 (3) (OC) FA only	Vol Core (3) FA, SP, SU
18 hours	Prereq- ME 344	Petition required in advance with advisor and dept. head.	ME 365 Prereq-ME 231 with grade of C or better ME 463 Prereq- ME 363	Global Citizenship International (GCI)	Prereq- ME 363 or 367 and 366 Coreq- ME 466 or 475	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS
Spring	Vol Core (3) FA, SP, SU	Dept. Elective (3) FA, SP	Dept. Elective (3) FA, SP	ME 460 (3) (AOC) SP only	ME 449 (3) (WC) FA, SP	
15 hours	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	300 level or above AE, BME, ME not already required.	Any 300 level or above in AE, BME, or ME not already required.	Prereq- ME 450	Prereq- ME 321, 344 & 345 and English 102, 112, 132, or 298	

Full Status Progression
A lower-division student may apply for progression to upper division after completing EF 152/158, CHEM 122/123 or 128 , MATH 231 , ME 202, ME 231 and ME 321 with a grade of C or better in each, and an overall GPA of at least 2.4.
Students who have not satisfied the requirements for full status will be dropped from departmental class rolls in upper division courses.

Provisional Status Progression
Students who have completed EF 152/158, Chem 122/123 or 128, Math 231, ME 202, ME 231, ME 321 with a grade of C or better and have an overall GPA between 2.0 and 2.4 may apply for provisional status.
The granting of provisional status is based on the availability of space in departmental programs after full status students have been accommodated. Provisional status students are required to demonstrate their ability to perform satisfactorily in upper-division by attaining a minimum GPA of 2.0 in the first 12 hours of 300-level required engineering courses. Award of upper-division full status is dependent upon this performance. Students with an overall GPA less than 2.0 will not be admitted to upper-division. Students who have not progressed to upper-division will be dropped from departmental class rolls in upper division courses.

Transfer Students
Students transferring more than 26 hours from another institution are considered transfer students. Transfer students must meet the same criteria as non-transfer students, using transfer grades for acceptable substitutions.
Transfer courses with grades below a C will not be accepted to fulfill any degree requirements.

Departmental Academic Standing
The faculty of the Department of Mechanical, Aerospace and Biomedical Engineering expect all students who enter to make progress toward graduation. To graduate from the department, a student must earn a minimum grade point average of 2.0 in all departmental courses counted toward the degree. Students not meeting the required departmental GPA may be dropped from their major.
In addition, the University Academic Good Standing Policies apply to all students.

ME Graduation Requirements
A minimum GPA of 2.0 in all departmental courses counted toward the degree taken at the University of Tennessee, Knoxville, is required for graduation. No more than two departmental courses in which a C- or lower is the highest grade earned may be counted toward graduation. This is in addition to the university's graduation requirements.

Students also have opportunities for an Honors Concentration and/or a five year BS/MS program. See the Undergraduate Catalog for details and requirements.